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PHOTOGRAPHIC INTERPRETATION REPORT

KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

25X1 CHANGES CIA AIR FORCE 25X1

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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PREFACE

"miles" used throughout this report means nautical miles, and all direc-

tions are referenced from true north.

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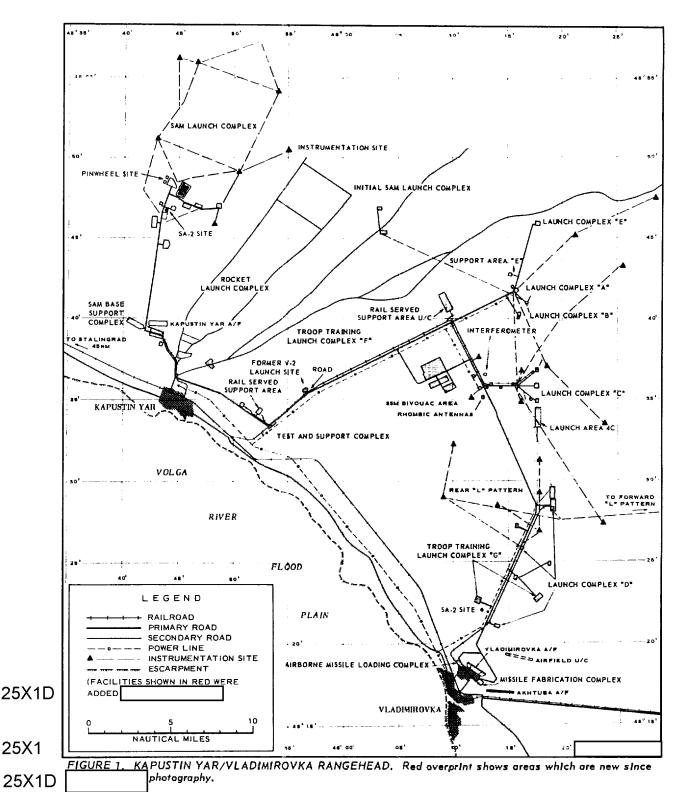
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INTRODUCTION
The photography of
the Kapustin Yar/Vladimirovka Missile Test Center (48-34N 45-53E)
shows continuing expansion of the center
(Figure 1). The major expansion observed is at Launch
Complex ''C,'' where a new launch area is under construction. Another
significant addition is a rail- and road-served support area under con-
struction along the road from Kapustin Yar to Launch Complex "A." A
surface-to-air missile (SAM) launch site, new is under
development, and two operational SA-2 SAM sites have been added to this
range These areas are discussed first in this report
and the other areas with fewer changes follow.
Although some changes were noted on coverage, it is
used mainly as a time base reference to report on construction progress.
LAUNCH COMPLEX ''C''
The missions provided partial coverage of
this complex. The complex was completely cloud covered on the
photography.
The most significant item identified, was a new launch
area under construction (designated Launch Area 4C).
The rail line under construction from Checkout and
Assembly Area 2C was being extended to Launch Area 1C
Poor weather on the missions makes a
comparison of individual facilities impossible. Therefore, in most cases
comparisons are made with the status as of the photog-

raphy, on which all facilities in the complex were cloud free.

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The accompanying table shows the weather conditions of the comparative coverages on photography at the individual facilities in the complex. Clouds and cloud shadow prohibit detailed analysis of many of these facilities.

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Table 1. Comparative Coverage of Launch Complex C.

	Facility	Remarks		
	Launch Areas			
	1C	Rail line u/c to Launch Area 1C		
	2C	No report		
25X1D	3C	No change		
	4C	New Launch Area u/c		
	Support Facilities			
25X1D	Assembly Area 1C	No change		
	Assembly & Checkout 2C	Rail line u/c to Launch Area 1C		
	Assembly Area 3C	No change		
25X1D	Checkout Area 1C	No change		
	Checkout Area 3C	No change		
25X1D	Admin & Housing Area	No change		
25X1D	Unidentified Area	Minor buildup		
	Electronics Facilities			
05V4D	Site C1	No change		
25X1D	Site C2	No change		
	Site C3	No report		
	Site C4	No change		
25X1D	Site C5	No change		
	Rhombics	New communications control center		
	Interferometer Site	New interferometer		
25X1D	Bivouac Area	Approximately 30% increase in area		

^{*}Weather abbreviations: cc-cloud covered, sc-scattered clouds, cs-cloud shadow, cl-clear.

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Launch Areas

Although there has been no change in Launch Area 1C	
the rail line under construction	was being ex-
tended to this launch area. Launch area 1C may serve as a	point at which
rail-mobile launch systems will be developed. This system	
developed missiles and only the handling and ground supp	·
may be undergoing research and development. Ground scar	
that the field troop-training sites north of the launch a	
active, but no sites in addition to the four present	seem
to have been constructed.	
Launch Area 2C has not been observed	There
is no apparent change in Launch Area 3C	
A new launch area (4C) in an early stage of construct	ion was identi-
fied at Launch Complex "C" (Figure 2) on the	photography.
Partial cloud cover and cloud shadow preclude a detailed	analysis. The
area is 2,100 feet south of Launch Area 3C and in line with	
ing launch pads at Complex "C." The area is served by an	
which branches south from the service road for Launch	
point of intersection is obscured by clouds but when the roa	
it intersects northwest of Checkout Area 3C. The south t	
road is also obscured by clouds. A road approximately	
branches off to the east to serve the launch area. Another	
to the west, leads south toward Vladimirovka.	
Decayed of ground accurring only one fence can defini	itely be identi.

Because of ground scarring, only one fence can definitely be identified. Two scars perpendicular to this fence line, one to the north and one to the south, probably indicate the other fence lines. Combined, these scars enclose an area of approximately 3,800 by 1,000 feet.

This new launch area resembles Launch Area 2C. It appears to be rectangular in shape, but is more than twice the length and about the same width as 2C (2C measures 1,700 by 1,200 feet). About 750 feet from the north fence line is a possible pad under construction. Its ultimate size

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and configuration cannot be determined at present. Two pairs of parallel objects west of the pad and oriented at right angles to the fence line could be counterparts of the vehicle stalls abutting the pads at Launch Area 2C.

If another pad were located 750 feet in from the south fence (this point is obscured by cloud and cloud shadow), the distance between pads would be 2,300 feet. This is an unusually great distance to separate pads as evidenced by techniques employed at the Kapustin Yar Missile Test Center in the past few years. If two other pads were evenly spaced in the 2,300-foot expanse, the four pads would be separated by about 800 feet on center. The pads at 2C are separated by a distance of 850 feet on center.

There are 14 buildings, ranging from 60 to 100 feet located west of the access road approximately 3,000 feet north of the service road to the launch area. No other buildings can be identified in the immediate area.

Another area of activity is located farther south. The access road passing Launch Area 4C terminates under the cloud. The only recognizable feature other than an extensive amount of ground scarring is a probable road, oriented approximately north-south and in alignment with the existing launch pads of this complex.

A straight ground scar, probably a covered ditch, leads south from the gate of the launch area. It appears to connect near the power line along the road behind Launch Complex "D." A diamond-shaped ground scar is located about 500 feet north of the launch area.

No instrumentation ground patterns were identified.

Support Facilities

	The	only significant additio	n to the	support	facilities	s at Laun	ch Com-
25X1D	plex "C"		is the e	xtensio	n of the r	ail line f	rom As-
	sembly ar	nd Checkout Area 2C (F	igure 1)			the line	appeared
25X1D	to termin	nate at the Complex Co	ontrol C	enter.	It has sir	nce been	extended
	to Launch	ı Area 1C where it term	ninates.				

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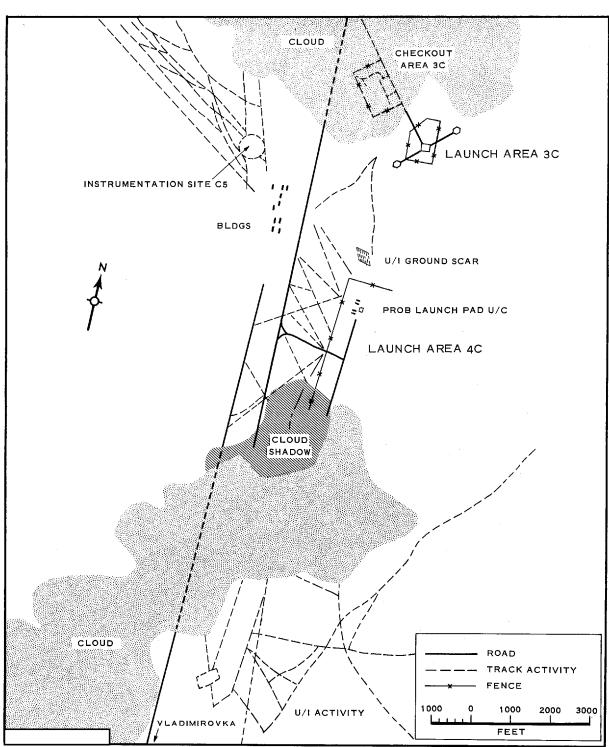


FIGURE 2. LAUNCH COMPLEX "C" SHOWING NEW LAUNCH AREA (4C) UNDER CONSTRUCTION.

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25X1D	An area of building activity (Figure 1) located approximately 4,000 feet north/northwest of the Administration and Housing Area now appears to be complete photography indicates that only four buildings have been added This makes a total of 17 buildings in the area. No changes were observed at the other support facilities. Table 1 provides a comparative analysis of the individual support facilities.
	Electronics Facilities
25X1	None of the instrumentation sites visible on photography
25X1	appear to have changed since photography
25X1D	Due to the small images of these sites, however, it is probable that only
	major expansion could be seen on this later photography.
	A new, probable communications control center has been constructed
25X1D _.	immediately south of the rhombic antenna field identified
25X1D	This facility appears to be fenced and measures about 1,000 by
•	200 feet. Only one building can be identified within the fenced area.
	An interferometer site (Figure 1), believed to be under construction
25X1D	can now be confirmed. This site, together with the
	fenced facilities immediately to the north, has been designated the Range
	Instrumentation Site. It is discussed here because of its proximity to
	Launch Complex "C," although it probably serves all the launch complexes.
	It is east of the main access road and the branch spur rail line, and ap-
-	proximately 8,000 feet north of the Administration and Housing Area. In
25X1D	it contained not only the interferometer site in the early
_	stage of construction but also two fenced areas. Combined, these areas
	contained approximately 10 buildings, including a 20-foot domed silo with
25X1D	building, 5 vans, and several miscellaneous items such
	as buried tanks and various types of vehicles. Since this portion of the
25X1D	site is obscured by clouds and haze, no expansion
,	can be determined

25X1D

25X1D

25X1D

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Bivouac Area

the bivouac area (Figure 1) was divided into seven distinct areas which were each set off by a plowed strip. These strips were neither uniform in configuration nor equal in size. At that time a total of approximately 800 square tent bases could be identified. No permanent facilities such as buildings or structures were identified.

Some increase to the overall area and an extensive amount of track activity have occurred since then. At least eight buildings, approximately 60 feet long, have been constructed adjacent to and east of the bivouac area. Since the individual tent sites cannot be identified on photography of this scale, the only indicator to buildup in the area would be the ground scarring, which indicates an approximate 30 percent increase in area. There is an almost unlimited area for expansion.

NEW SUPPORT AREA UNDER CONSTRUCTION

a new construction project was observed on the north
side of the road that runs from Kapustin Yar through to Launch Complex
"E" at the junction of the road from Vladimirovka. The project appeared
to be in the very early stages at the time of photography and nothing could
be said about it.
however, the construction project was well underway and
a definite pattern had developed (Figure 3). The rectangular area meas-
ures approximately 2,500 by 1,100 feet. A spur from the rail line that
terminates at Launch Complex "C" branches at the road junction and
serves the new installation. The terminus cannot be seen due to cloud
shadow. A paved road also enters the installation from the intersection.

The installation is in the process of being double-fenced and at least nine buildings can be identified within the fenced area. Two buildings which appear to be the most important are offset to the west of the paved

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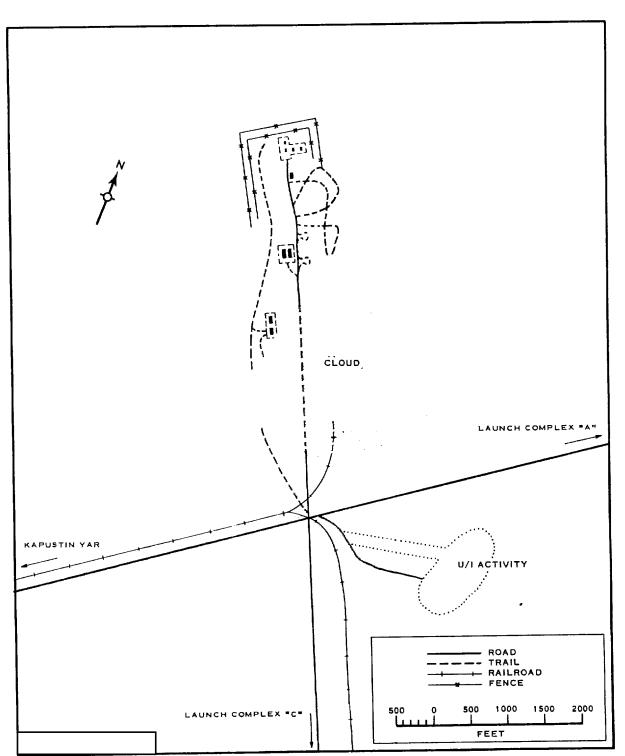


FIGURE 3. NEW SUPPORT AREA UNDER CONSTRUCTION.

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25X1D	road. They may be on concrete hardstands and appear to be drive-through type. No specific function can be assigned to any of the buildings or to the installation itself. The installation was completely cloud covered on the photography.
: 	SAM FACILITIES
25X1D	the entire Surface-to-Air Missile facilities (Figure 1) were covered with only 5 percent cloud cover. There has been little change since PIC/JR-14/60.* A new building and area of construction activity were noted in the northwest and southwest corners respectively of the Research and Development Launch Area. Instrumentation Control
	Site No 8 was improved with a firebreak and a fence added. No other changes were noted.
25X1D 25X1D	The area was partially covered by cloud-free photography Only the actual launch areas were covered. A new instrumentation site was constructed 5.5 nm northeast of the SA-3 launch area and connected by road and/or cable to Instrumentation Site No 4 on the SAM Test
25X1D	Range. No other changes were noted. Ninety-five percent of the SAM facilities were covered by 90 percent cloud-free photography A new SAM launch site had been constructed adjacent to the northwest fence of the Research and Develop-
25X1D	ment Launch Area. It appeared to be a six-launcher pinwheel-type site, but, although this site was barely visible not enough could be seen to identify it as such. Other unidentified activity was in progress just north of and adjacent to the northwest fence line. An operational SA-2
25X1D	site had been constructed between the Yo-Yo guidance site and the support area No other activity was noted within the SAM area.

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^{*} See references.

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25X1

OTHER AREAS

	Portions of the rangehead which showed less significant or no changes		
	are grouped in this section. Those areas that showed some change are		
	discussed separately; the others are merely mentioned. The changes		
	discussed are illustrated in Figure 1.		
25X1	Launch Complex "B" was completely cloud covered on the		
25X1D	photography. On the mission, over 60 per-		
25X1D	cent cloud cover, together with haze and cloud shadow, make interpretation		
	impossible.		
25X1	The small scale of the photography makes it impossible		
	even to identify individual sites at Troop Training Launch Complex "F".		
25X1D	No changes were seen at the Initial SAM Launch Complex on		
25X1D	photography and the complex was cloud covered		
25X1D	The same is true of the Airborne Missile Loading Facility.		
ı	The major portion of the Kapustin Yar Base Support Complex was		
25X1D	covered by cloud-free photography but no changes could		
	be identified. The support complex was not covered by photog-		
	raphy. No changes could be seen at the complex when it was		
	covered by partially hazy photography.		
	Launch Complex "A"		
25X1D	On the photography, clouds and cloud shadow obscured		
	50 percent of this complex. The launch areas were not discernible, and		
	the support area was 40 percent cloud covered. Two of the four tracking		
	stations of the modified "V" configuration were visible. There were no		
25X1D	apparent changes		
25X1D	Clouds and cloud shadow on the coverage also obscured		
	50 percent of the complex. Both launch points were cloud covered, and		
	approximately 30 percent of the support area was cloud covered. Only		

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-	
	one of the four tracking sites of the modified "V" configuration was visi-
	ble. There were no observable changes.
25X1D	The complex was entirely cloud covered on the photography.
	Launch Complex "D"
25X1D_	
20/(12	On the photography, Launch Complex "D" was 85 percent
-	cloud covered; all four launch points were completely cloud covered. The
	Range Control Center and Support Area were 70 percent cloud covered,
ţ	with the Radar Facility, Rear "L" Pattern, Linear Pattern, and Assembly
0.53/(1.5)	and Checkout Area visible, but no apparent change in any of the areas.
25X1D	In Launch Complex "D" was 25 percent cloud covered,
	with the remaining 75 percent in cloud haze. Three of the four launch
	points were visible through the haze and there appeared to be no change.
	The Linear Pattern, Range Control Center, and Logistical and Ad-
-	ministrative Support Area were visible through haze, with no apparent
	change. The Assembly and Checkout Area was cloud free, with no change.
	The radar facility was cloud covered.
25X1D	On photography, Launch Complex 'D' was entirely cloud
	covered except for the launch areas, which were barely visible through
	heavy haze. There appeared to be no change.
	Launch Complex "E"
25X1D	On Launch Complex "E" was cloud free, with no change
1	since the last report (PIC/JR-21/60).*
25X1D	In Launch Complex "E" was cloud covered. However, a
	new housing and support area had been identified on the west side of the
	main road from Launch Complex "A" to Launch Complex "E." It is lo-
	cated at the terminus of a branch road, approximately one nm from the
-	* 9
	* See references.

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25X1D	Launch Complex "A" housing and support area. Although small scale and cloud shadow inhibit detail, it appears that this support and housing area for Complex "E" has approximately the same size and configuration as the one for Complex "A." Launch Complex "E" was 100 percent cloud covered on photography.
	Launch Complex "G"
25X1	Launch Complex "G" has undergone relatively few changes
25X1口	
25X1D	
25X1D	item noted was the inclusion of an SA-2 SAM site adjacent to the Motor Pool and Equipment Park. The complex was completely cloud
25X1D	covered on the photography. No comparison can be made between
25X1D	coverages, since each of the facilities of the complex was cloud covered on
25X1	these missions. Hence, all comparisons are made with
25X1D	
	A detailed analysis of the complex may be found in CIA/PIC/JR-1006/61. *
	Launch Areas
25X1D	Both launch areas were completely cloud covered on photog-
25X1D	1 10 40 40 40 40 40 40 40 40 40 40 40 40 40
	at Launch Area 1G were probably complete. This mission confirmed the
	predicted pad configuration illustrated in PIC/JR-1006/61. The short
	section of road under construction leading east from the Housing Area

does extend to Launch Area 1G as speculated in the same report.

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^{*} See references.

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25X1	The small scale of the photography precludes interpretation of details at Launch Area 2G. Individual sites are not evident.
	Support Facilities
	The Support Facilities consist of the Missile Storage and Handling Areas, the Motor Pool and Equipment Park, the Transloading Area, and the Housing Area. There has been no apparent change in these facilities
25X1D	
-	Rocket Launch Complex
25X1D 25X1D	The major portion of the Rocket Launch Complex was cloud free in and shows expansion A new area, located 0.5 nm northeast of the old positions, contains at least four buildings, but small scale precludes any definite interpretation.
25X1D 25X1D 25X1D	Only a portion of the Rocket Launch Complex had cloud-free coverage The new portion was not covered and no new areas were identified. The complex was partially cloud covered No changes were noticed. Small scale precludes further details.
. 🛋	Former V-2 Launch Site
25X1D 25X1D	The former V-2 Launch Area was 5 percent cloud covered A graded road was observed leading from the main service road that runs from Kapustin Yar to Launch Complex "A." The road appeared to serve an existing tracking site that was associated with V-2 launchings. Small scale precludes interpretation.
25X1D	The complex was cloud free and the new road appeared to be paved. Some new activity appeared to be taking place at the terminus of

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	this road, at the old V-2 tracking site; however, small scale precludes interpretation.
25X1D	The complex was completely cloud covered on photography.
	Test and Support Complex
25X1D 25X1D 25X1D 25X1D 25X1D	The Test and Support Complex was cloud free on photography and a new rail-and road-served support area was built on the north side and adjacent to the rail line from Kapustin Yar to the Test and Support Complex (Figure 1). The area is enclosed by a fence, which measures 1,200 by 700 feet. Before the rail line enters the area it bisects and appears to serve two units within the fenced area. Construction activity extends on both sides of this new area. The small scale precludes interpretation of this new area. The remainder of the complex appears to be the same as viewed on photography photography of the complex was clear, but no new activity was noted. The complex was cloud covered
	Missile Fabrication Complex
25X1D 25X1D	The entire area was covered by cloud-free photography The second large fabrication building, which was under construction appeared to be completed. This new building is similar to the earlier building with sawtooth roof construction and measures approximately 500 by 220 feet. No other changes were noted.
25X1D 25X1D	No apparent changes were observed on hazy photography The complex was completely cloud covered

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Vladimirovka Base Support Complex

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